

सिपेट : सेन्टर फॉर स्किलिंग एण्ड
टेक्निकल सपोर्ट (सी एस टी एस)

रसायन एवं पेट्रोसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

प्लॉट नं. जे-3/2, एम.आई.डी.सी. औद्योगिक क्षेत्र,
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मुख्यालय : सिपेट, गिण्डी, चेन्नै-600 032



CIPET सिपेट
probe - perform - practice - Plastics



CIPET : CENTRE FOR SKILLING AND
TECHNICAL SUPORT (CSTS)

Department of Chemicals & Petrochemicals,
Ministry of Chemicals & Fertilizers, Govt. of India

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श्रेणी / SERIES : A

क्र. / No. 17780

प्लास्टिक्स परीक्षण केंद्र
PLASTICS TESTING CENTRE

परीक्षण प्रमाण पत्र / TEST CERTIFICATE

Issued to:

MIPA INDUSTRIES
Survey Number- 28/1/5,
Kondhawa Road, Near Hotel Garwa Hills,
Pisoli Pune, Maharashtra- 411048.

Test Report No : 24440
Date : 09.11.2021
Your Ref : Letter
Date : Nil

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Test Report as per IS 17216 : 2019 with Amendment No. 1

PART -A

PARTICULARS OF SAMPLE SUBMITTED

(a) Name of Sample	:	"Polyethylene Mulch Films for Agriculture and Horticulture" as stated by party
(b) Grade/Variety/Type/Size/Class	:	30 Micron - (As indicated on letter)
(c) Declared value, if any	:	Nil
(d) Code No	:	Nil
(e) Batch No. and Date of Manufacturing	:	Nil
(f) Quantity	:	1.22 x 20 Mtr. (Approx)
(g) Mode of Packing	:	Wrapped in woven sack bag
(h) Sealed or not	:	Not Sealed
(i) Date of Receipt	:	18.10.2021
(j) Date (s) of Performance of Test	:	21.10.2021 to 09.11.2021
(k) Any other information	:	Colour silver black - (As indicated on letter)

PART- B

SUPPLEMENTARY INFORMATION

i) Reference to sampling procedure	:	Samples supplied by the party
ii) Supporting documents for the measurement taken and result derived	:	As given in Part C
iii) Deviation from the test method as prescribed in relevant work instruction, if any -	:	Nil

09.11.2021

09/11/2021



PART - C						
Test Result as per IS 17216 : 2019 with Amendment No. 1						
Sl. No	Clause	Name of test	Unit	Test Value Obtained	Specified Requirement	
1.	5.1.1	Density @ 27° C	g/cc	0.928	0.908 to 0.930 g/cm ³ at 27°C (0.910 to 0.932 g/cm ³ at 23°C)	
2.	5.1.2	Melt Flow Index @190° & 2.16 Kg	g/10 min	0.39	Between 0.1 to 2.5 g/10 min.	
3.	5.2.3	Colour	--	Outer - Black Inner - Silver	As agreed to between the manufacturer and the purchaser.	
4.	5.3.1.1	Thickness (Avg.)	microns	29	30	
		Individual value	--	29,30,28, 28,29		
		Tolerance (Avg.)	%	(-) 3.33		± 5 on Average
		Tolerance (Individual)	%	(-) 6.66		± 10 on Individual
5.	5.3.1.2	Width	mm	1220	As agreed to between the manufacturer and the purchaser. (1220) (-) 0 , (+) 5	
		Tolerance	%	0.0		
6.	5.3.3	Tensile strength at break a) Length wise direction b) Cross wise direction	kgf/cm ²	201.1 206.1	200 (min.)	
		Elongation at break a) Length wise direction b) Cross wise direction		%		903.9 886.2
8.	5.3.5	Coefficient of Friction	--	0.34	0.22 to 0.35	
9.	5.3.6	Elmendorf Tear Strength Length wise direction Cross wise direction	g	100 140	(min) 2g/micron = 60 (min) 4g/micron = 120	
		Opacity		%	99.5 (-) 0.5	Shall be 100 percent Tolerance (-1 %)
11.	5.4	Carbon black, percent	%	2.21	2.0 to 3.0	
12.	Table 2	Carbon black dispersion	--	Satisfactory	Shall be satisfactory	

PART D

Remarks: Sl No. 11 & 12 Density & MFI Test conducted on Mulch Film Sample.

- NOTE :
- 01 This Test Report / Certificate is issued only for the samples submitted to CIPET.
 - 02 The results stated above related only to the items tested.
 - 03 The quality of the subsequent production lot has to be ensured by the purchaser.
 - 04 The reports shall not be reproduced in full / part without written approval of the laboratory.
 - 05 Details of tests subcontracted: Nil

Authorized Signatory
Kirankumar V. Koli
Asst. Technical Officer

Authorized Signatory
Dr. Piyush Kumar
Technical Officer